## **EAST Search History**

## EAST Search History (Prior Art)

| Ref #       | Hits | Search Query   | DBs                | Default<br>Operator | Plurals | Time Stamp          |
|-------------|------|--|--------------------|---------------------|---------|---------------------|
| S1          | 1    | "20060108034"  | US-PGPUB;<br>USPAT | ADJ                 | ON      | 2007/12/13<br>08:34 |
| S2          | 225  | 148/525.ccls.  | US-PGPUB;<br>USPAT | ADJ                 | ON      | 2008/01/02<br>17:05 |
| 83          | 25   | 148/525.ccls. and<br>plasma and (descal\$5<br>or clean\$5)                         | US-PGPUB;<br>USPAT | ADJ                 | ON      | 2008/01/02<br>17:05 |
| S4          | 228  | 148/565.ccls.  | US-PGPUB;<br>USPAT | ADJ                 | ON      | 2008/01/02<br>17:05 |
| S5          | 25   | 148/565.ccls. and<br>plasma and (descal\$5<br>or clean\$5)                         | US-PGPUB;<br>USPAT | ADJ                 | ON      | 2008/01/02<br>17:06 |
| S6          | 1216 | "148".clas. and plasma<br>and (descal\$5 or clean<br>\$5)                          | US-PGPUB;<br>USPAT | ADJ                 | ON      | 2008/01/03<br>08:27 |
| S7          | 1064 | "148".clas. and plasma<br>and (descal\$5 or clean<br>\$5) and metal                | US-PGPUB;<br>USPAT | ADJ                 | ON      | 2008/01/03<br>08:27 |
| S8          | 138  | "148".clas. and plasma<br>and (descal\$5 or clean<br>\$5) and metal and<br>tensile | US-PGPUB;<br>USPAT | ADJ                 | ON      | 2008/01/03<br>08:30 |
| S9          | 31   | "148".clas. and plasma<br>same (descal\$5 or<br>clean\$5) and metal<br>and tensile | US-PGPUB;<br>USPAT | ADJ                 | ON      | 2008/01/03<br>08:31 |
| <b>S</b> 15 | 1    | continuous surface<br>treatment device<br>sequence metal                           | JPO; DERWENT       | ADJ                 | ON      | 2008/01/03<br>09:46 |
| S23         | 123  | descaling.ti. and metal  | US-PGPUB;<br>USPAT | ADJ                 | ON      | 2008/01/03<br>10:02 |
| S24         | 8    | descaling.ti. and metal and plasma   | US-PGPUB;<br>USPAT | ADJ                 | ON      | 2008/01/03<br>10:03 |
| S25         | 15   | descaling.ti. and metal<br>and (plasma or<br>vacuum)                               | US-PGPUB;<br>USPAT | ADJ                 | ON      | 2008/01/03<br>10:31 |
| S26         | 0    | ("7275920").PN.  | JPO                | OR                  | OFF     | 2008/01/04<br>09:10 |
| S27         | 0    | (07/275920).APP.   | JPO                | OR                  | OFF     | 2008/01/04<br>09:10 |

| S28         | 5   | continuous surface<br>treatment device   | JPO                | ADJ | ON  | 2008/01/04<br>09:10 |
|-------------|-----|--|--------------------|-----|-----|---------------------|
| S29         | 1   | plasma descaling and liquid metal  | US-PGPUB;<br>USPAT | ADJ | ON  | 2008/01/04<br>15:09 |
| S30         | 137 | vacuum arc and liquid<br>metal   | US-PGPUB;<br>USPAT | ADJ | ON  | 2008/01/04<br>15:10 |
| S31         | 2   | vacuum arc and liquid<br>metal and descaling                                       | US-PGPUB;<br>USPAT | ADJ | ON  | 2008/01/04<br>15:10 |
| S32         | 14  | vacuum and liquid<br>metal and descaling   | US-PGPUB;<br>USPAT | ADJ | ON  | 2008/01/04<br>15:11 |
| S33         | 2   | vacuum and hot galvan<br>\$7 and descaling   | US-PGPUB;<br>USPAT | ADJ | ON  | 2008/01/04<br>15:14 |
| S34         | 4   | vacuum same<br>descaling and galvan<br>\$6   | US-PGPUB;<br>USPAT | ADJ | ON  | 2008/01/04<br>15:16 |
| <b>S3</b> 5 | 35  | liquid metal and descaling   | US-PGPUB;<br>USPAT | ADJ | ON  | 2008/01/04<br>15:24 |
| <b>S3</b> 6 | 2   | induction heat\$5 and<br>descaling same<br>vacuum                                  | US-PGPUB;<br>USPAT | ADJ | ON  | 2008/01/04<br>15:42 |
| <b>S</b> 37 | 41  | vacuum and galvan\$7<br>and descaling  | US-PGPUB;<br>USPAT | ADJ | ON  | 2008/01/04<br>15:46 |
| <b>S38</b>  | 13  | galvanizing same<br>stainless steel same<br>strip                                  | US-PGPUB;<br>USPAT | ADJ | ON  | 2008/01/04<br>15:54 |
| S39         | 1   | galvanizing same<br>stainless steel same<br>strip same liquid                      | US-PGPUB;<br>USPAT | ADJ | ON  | 2008/01/04<br>15:55 |
| S40         | 1   | ("4409265").PN.  | US-PGPUB;<br>USPAT | OR  | OFF | 2008/01/04<br>16:08 |
| S41         | 230 | 148/525.ccls.  | US-PGPUB;<br>USPAT | ADJ | ON  | 2008/06/30<br>13:57 |
| S42         | 25  | 148/525.ccls. and<br>plasma and (descal\$5<br>or clean\$5)                         | US-PGPUB;<br>USPAT | ADJ | ON  | 2008/06/30<br>13:57 |
| S43         | 231 | 148/565.ccls.  | US-PGPUB;<br>USPAT | ADJ | ON  | 2008/06/30<br>13:57 |
| S44         | 25  | 148/565.ccls. and<br>plasma and (descal\$5<br>or clean\$5)                         | US-PGPUB;<br>USPAT | ADJ | ON  | 2008/06/30<br>13:57 |
| S45         | 141 | "148".clas. and plasma<br>and (descal\$5 or clean<br>\$5) and metal and<br>tensile | US-PGPUB;<br>USPAT | ADJ | ON  | 2008/06/30<br>13:57 |
| S46         | 124 | descaling.ti. and metal  | US-PGPUB;<br>USPAT | ADJ | ON  | 2008/06/30<br>13:57 |

| S47         | 140    | vacuum arc and liquid<br>metal   | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2008/06/30<br>13:57 |
|-------------|--------|--|--|-----|----|---------------------|
| S48         | 14     | vacuum and liquid<br>metal and descaling   | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2008/06/30<br>13:57 |
| S49         | 4      | ("4555612"  <br>"5554235"   "6088895"<br>  "6585875").PN.                          | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2008/06/30<br>14:02 |
| S50         | 239    | 148/525.ccls.  | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2009/06/11<br>11:55 |
| S51         | 26     | 148/525.ccls. and<br>plasma and (descal\$5<br>or clean\$5)                         | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2009/06/11<br>11:55 |
| S52         | 238    | 148/565.ccls.  | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2009/06/11<br>11:55 |
| <b>S</b> 53 | 26     | 148/565.ccls. and<br>plasma and (descal\$5<br>or clean\$5)                         | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2009/06/11<br>11:55 |
| S54         | 154    | "148".clas. and plasma<br>and (descal\$5 or clean<br>\$5) and metal and<br>tensile | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2009/06/11<br>11:55 |
| <b>S</b> 55 | 125    | descaling.ti. and metal  | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2009/06/11<br>11:55 |
| S56         | 148    | vacuum arc and liquid<br>metal   | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2009/06/11<br>11:55 |
| S57         | 14     | vacuum and liquid<br>metal and descaling   | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2009/06/11<br>11:55 |
| S58         | 295    | 148/525.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2009/06/11<br>12:01 |
| <b>S</b> 59 | 26     | S58 and plasma and (descal\$5 or clean\$5)   | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2009/06/11<br>12:01 |
| S60         | 26     | \$58 and plasma and (descal\$5 or clean\$5)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2009/06/11<br>12:01 |
| S61         | 130046 | plasma and (descal\$5<br>or clean\$5)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2009/06/11<br>12:19 |
| S62         | 29807  | S61 and steel  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2009/06/11<br>12:19 |
| S63         | 30323  | plasma with (descal\$5<br>or clean\$5)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2009/06/11<br>12:20 |

| S64 | 525 | S63 same steel   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2009/06/11<br>12:20 |
|-----|-----|--|--|-----|----|---------------------|
| S65 | 159 | S64 and roll\$3  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2009/06/11<br>12:20 |
| S66 | 22  | plasma with (descal\$5<br>or clean\$5) same steel<br>and roll\$3 and tensile       | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2009/06/11<br>12:23 |
| S67 | 49  | vacuum and galvan\$7<br>and descaling  | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2009/06/11<br>12:25 |
| S68 | 113 | descaling.ti. and steel  | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2009/06/11<br>12:25 |
| S69 | 83  | S68 and roll\$3  | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2009/06/11<br>12:25 |
| S70 | 4   | "07275920"   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2010/01/14<br>09:55 |
| S71 | 18  | "6205830"  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2010/01/14<br>15:02 |
| S72 | 52  | "195385"   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2010/01/14<br>15:12 |
| S73 | 27  | "4872245"  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2010/01/14<br>15:13 |
| S74 | 27  | 148/525.ccls. and<br>plasma and (descal\$5<br>or clean\$5)                         | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2010/01/14<br>15:17 |
| S75 | 26  | 148/565.ccls. and<br>plasma and (descal\$5<br>or clean\$5)                         | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2010/01/14<br>15:17 |
| S76 | 160 | "148".clas. and plasma<br>and (descal\$5 or clean<br>\$5) and metal and<br>tensile | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2010/01/14<br>15:18 |
| S77 | 126 | descaling.ti. and metal  | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2010/01/14<br>15:18 |
| S78 | 154 | vacuum arc and liquid<br>metal   | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2010/01/14<br>15:18 |

| S79         | 14     | vacuum and liquid<br>metal and descaling                                     | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2010/01/14<br>15:18  |
|-------------|--------|--|--|-----|----|----------------------|
| S80         | 299    | 148/525.cds.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2010/01/14<br>15:18  |
| S81         | 27     | S80 and plasma and (descal\$5 or clean\$5)                                   | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2010/01/14<br>15:18  |
| S82         | 27     | S80 and plasma and (descal\$5 or clean\$5)                                   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2010/01/14<br>15:18  |
| S83         | 138357 | plasma and (descal\$5<br>or clean\$5)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2010/01/14<br>15:18  |
| S84         | 31745  | S83 and steel  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2010/01/14<br>15:18  |
| S85         | 32094  | plasma with (descal\$5 or clean\$5)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2010/01/14<br>15:18  |
| S86         | 562    | S85 same steel   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2010/01/14<br>15:19  |
| S87         | 174    | S86 and roll\$3  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2010/01/14<br>15:19  |
| S88         | 23     | plasma with (descal\$5<br>or clean\$5) same steel<br>and roll\$3 and tensile | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | ADJ | ON | 2010/01/14<br>115:19 |
| <b>S8</b> 9 | 49     | vacuum and galvan\$7<br>and descaling  | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2010/01/14<br>15:19  |
| S90         | 115    | descaling.ti. and steel  | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2010/01/14<br>15:19  |
| S91         | 85     | S90 and roll\$3  | US-PGPUB;<br>USPAT                                 | ADJ | ON | 2010/01/14<br>15:19  |

## EAST Search History (Interference)

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## 1/14/2010 3:21:52 PM

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